



## SEQUENCE LISTING

&lt;110&gt; Kalush, Francis et al.

#6

<120> Estrogen receptor alpha variants and  
methods of detection thereof

&lt;130&gt; CL000258CI4

&lt;150&gt; 60/160626

&lt;151&gt; 1999-10-20

&lt;150&gt; 60/183756

&lt;151&gt; 2000-02-22

&lt;150&gt; 09/692414

&lt;151&gt; 2000-10-20

&lt;150&gt; 09/768184

&lt;151&gt; 2001-01-24

&lt;150&gt; 09/804076

&lt;151&gt; 2001-03-13

&lt;150&gt; 09/826314

&lt;151&gt; 2001-04-05

&lt;160&gt; 2

&lt;170&gt; FastSEQ for Windows Version 4.0

&lt;210&gt; 1

&lt;211&gt; 465237

&lt;212&gt; DNA

&lt;213&gt; human

&lt;400&gt; 1

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| aactcctaca  | taattthtagt | aaacaggaac  | agtaacctaa  | tgtgatatacc | cactggccca  | 185160 |
| agacttagtg  | catctthcaa  | gttgcttaat  | tatgtccgaa  | acagacttht  | gtctcttgat  | 185220 |
| gagaaaagca  | tggttaaacg  | tgtgatgatt  | tcctattgtc  | ctgagctcag  | atctgtaatt  | 185280 |
| gtggccagat  | tcatgcatct  | ctgctgcctt  | ctcttagaag  | aatcatatgt  | aggcttgtca  | 185340 |
| gataaaacag  | gatgccagg   | taaaactggaa | thttagtht   | ataacaaata  | acattthtagc | 185400 |
| atgtcccatg  | caatattata  | ctaaaatatt  | atthgtttht  | tatctgaaat  | tcaaattht   | 185460 |
| ttgaatgtcc  | tgtattthttg | ttggttacat  | ctggcagccc  | tagccatgct  | gcctthtctgc | 185520 |
| ttaatgggct  | taattthttg  | aaggctggag  | gtthtctgtt  | atgggtgccc  | thttccacctg | 185580 |
| ctthtctacc  | aggaaaggag  | gcatgctgat  | gtagaattth  | catccttatt  | thttgtcatta | 185640 |
| ttattgatta  | taacagatga  | cataggtht   | gattaaacct  | acaatgacat  | tgctgtcatt  | 185700 |
| cagataattg  | taattattgc  | taattgtaaa  | gaaggataat  | thttthttgaa | atgactatta  | 185760 |
| thttgtthtt  | gtthttgtth  | thttgtthtct | thttthtctaa | thtatacttht | aattctaggg  | 185820 |

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|-------------|-------------|-------------|-------------|------------|-------------|--------|
| tacatgtgca  | caatgtgcag  | gtttgttaca  | tatgtataca  | tgtgccatgt | tgggtgtgctg | 185880 |
| cacctattaa  | ctcatccttt  | acattaggtg  | tatctcctaa  | tgctatccct | ccccctacc   | 185940 |
| ccccccccc   | gacaggtccc  | ggagtgtgat  | gttccccacc  | ctgtgtccaa | ctgttctcat  | 186000 |
| tgttcaattc  | ccacctatga  | gtgagaacat  | gcgggtgtttg | gttttttgtc | cttgggatag  | 186060 |
| tttgctgaga  | atgatggttt  | ccagcttcat  | ccatgtccct  | acaaagaaca | tgaactcatc  | 186120 |
| cttttttatg  | gctgcatagt  | attccatggt  | gtatatgtgc  | cacattttct | taatccagtc  | 186180 |
| tatcattgat  | ggatgttttg  | gttggttcca  | agtctttggt  | attgtgtata | gtgccacaat  | 186240 |
| aaacatacat  | gtgcatgtgt  | ctttatagca  | gcatgattta  | taatcctttg | ggtatatacc  | 186300 |
| cagtaatggg  | atggctgggt  | caaagtgtat  | ttctagttct  | agatccctga | ggaatcgcca  | 186360 |
| cactgacttc  | cacaatggtt  | gaactagttt  | acagtcccac  | caacagtgtg | aaagtgttcc  | 186420 |
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| aactggtgtg  | agatgatata  | tcattgtggt  | tttgatttgc  | atttctctga | tggccagtga  | 186540 |
| tgatgagcat  | tttttcatgt  | gtctgttggc  | tgcataaatg  | tcttcttttc | agaagtgtct  | 186600 |
| gttcatatcc  | ttcgccact   | tgttgatggg  | gttggtgttt  | ttttcttctg | aaatttgttt  | 186660 |
| gagttctttg  | tagattctgg  | atattagccc  | tttatcagat  | gagtagattg | caaaaaattt  | 186720 |
| ctcccatttt  | gtaggttgcc  | tgttcaactc  | gacggtagtt  | tcttttgctg | tgcagaagct  | 186780 |
| ctttcgttta  | attagatccc  | atttgtcaat  | tttggtcttt  | gttgccattg | cttttgggtg  | 186840 |
| tttgagacatg | aagtccttgc  | ccatacctat  | gtcctgaatg  | gtattgcctg | ggttttcttc  | 186900 |
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| aatgtttaca  | atgtatgaag  | ggaacatgaa  | gaaatagaat  | ctggtaaaaa | agagttcttg  | 187020 |
| cttttgagg   | gccaaaggct  | cctggctaac  | atgatgaaac  | ctcatctcta | ctaaaaatac  | 187080 |
| aaaaaattag  | ccgggcgtgg  | tggcacacgc  | ctgcagtcct  | agctgcttgg | gaggctgagg  | 187140 |
| caggagaacc  | acttgaacct  | aggaggtgta  | ggttgcagtg  | agccaagctt | gcaccactgc  | 187200 |
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| cttgctttca  | aaactatgga  | ttaggtaact  | tttgtgaatg  | agtaagatca | tgagtattat  | 187320 |
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| gaaaagagta  | tttcagagaa  | ataaatctct  | gaaatgcttt  | ttgaagtgtg | aaagatttag  | 187440 |
| aagacaaaag  | caaacctcct  | gtctagataa  | acattaaaga  | gatctgccct | cccctcctct  | 187500 |
| acctattcag  | gttgcaacac  | tttgggggtg  | gctgccttgg  | tagagcttga | tcgtgactct  | 187560 |
| ggtggcttgg  | gagatggcat  | gctgcacaag  | ggattcatgg  | ttacagcggg | cttgtgggac  | 187620 |
| tggggctctc  | caatacgtgg  | ttgggtttgt  | aaagaaatca  | gagctatggt | gtgaacaaaa  | 187680 |
| ggatatgcat  | gggagacagt  | gagacaagga  | aatgctccag  | aaattattgg | aatataggtc  | 187740 |
| agataactaa  | ctgtacttgt  | gccattttct  | gggggaaaaat | tctctgaagg | ctttttggga  | 187800 |
| aaagaatgga  | agtgagaatt  | ctcaggctct  | caaaaatattt | ccttttactc | agtcctaacc  | 187860 |
| tgaggccggt  | aaagaattcc  | cagagtcacg  | atggaaggca  | tgtttgggag | taagagccag  | 187920 |
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| aatggagaa   | acctcgtctc  | tacaaaaaat  | acaaaaatta  | gccaagtgtg | gtgacacgtg  | 188100 |
| cctgtaatcg  | agctcttcgg  | gaggctgaga  | caggagaatc  | acttggaccc | aggaggtgga  | 188160 |
| ggttgcagtg  | agccaagatc  | atgccactgc  | actccagcct  | gggtggcaga | gcaagactcc  | 188220 |
| atctcaaaaa  | aaaaaaaaaa  | aaaaaagaaa  | gaaatgtgtt  | ttccagggtt | ctgggtactt  | 188280 |
| aggaatttgg  | ttgcttttgc  | aggtggaagt  | ggaggtgact  | aggtaacagc | tgagtgattt  | 188340 |
| tgccccagtt  | ggacatgagc  | caggttgagc  | agaaagccct  | gggatgcggg | gagggggggtg | 188400 |
| gcggggaagg  | aattgaaagt  | tggttgtgtg  | gtttggcttt  | ggcttcatgg | catgctcaca  | 188460 |
| ccttgcttcg  | catagcatgc  | ttagactaca  | gcaggagcat  | caggaagtgg | atttctgagc  | 188520 |
| tcaatacaaa  | aagttataaa  | taccacctat  | aagggcaata  | aagatatata | gttgattttc  | 188580 |
| ttctttgcaa  | ggccaaatct  | tataggaaca  | taagagcgaa  | tgagttacag | cctgggaatt  | 188640 |
| tgagccttat  | attcagagat  | tttaggttgc  | ttctgattcc  | gctgtctaga | caaaaccatg  | 188700 |
| agaggatagt  | gtctagaaat  | gagaggaagc  | tcttccaatg  | cagaggctag | aatgtgtcag  | 188760 |
| cctgtgctgc  | gaggcctggg  | atagatgttt  | ctgaaaagta  | aaagggcagc | tttctactg   | 188820 |
| gatacttgat  | cctcaggctc  | tagaaaactc  | tgctttatta  | actttgttga | cttcttaggc  | 188880 |
| accacatggg  | atccttgttc  | ttcctccttg  | taagcagtaa  | ttgaaatcag | tttggcagcc  | 188940 |
| tggtttacag  | tgaccatggt  | ggcttgtctc  | ccgtgtctct  | acctcactct | gttgatgttg  | 189000 |
| taaaacctcc  | agctaacttc  | atgggggtgg  | tgaccacagt  | tgctcattta | ttcattcaac  | 189060 |
| acatattcat  | tgaccatcta  | ctctatgcca  | ggtattgtta  | tcagcactgg | gaatagatca  | 189120 |
| gtgaactatt  | gatctatttg  | tctaattggga | caaattgaca  | aattgggaaa | gattccatta  | 189180 |
| cacaggtgac  | atttaagcaa  | agtcttgaat  | aagggagggg  | atagtaccat | gagatatcct  | 189240 |

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| ggtgaaaagc  | aatttaggct  | gagggcacag  | caggggaagag | gccctgatgt  | gggaacatcc  | 189300 |
| ctggtgtctt  | gaggtacaga  | ggccagcatg  | gctggcacgg  | agtaagaagt  | tggaggtgcc  | 189360 |
| gggcatgggtg | actcacacct  | gtaatcccag  | cactttgggt  | ggctgaggca  | gatgggtcac  | 189420 |
| ctgagcccag  | gagcttgaga  | ccagcctggg  | caacatgggtg | agaccccatc  | tctacaaaaa  | 189480 |
| aatacaaaaga | aaattagcca  | gatgtggtag  | catgcatctg  | tagtcccaat  | tgcttgggag  | 189540 |
| gctgagatgg  | gaggatcaaa  | ttacttggga  | ggctgagatg  | ggaggatcac  | ttgagtccag  | 189600 |
| gaggtggagg  | ttgcagtgag  | ctgagatcat  | gtcaggggtga | cagagcgaga  | ccctgtctca  | 189660 |
| aaaaaaaaaa  | aaaagaaaaa  | gaaaaaagaa  | aaaaaaagaa  | gttggaggtg  | agtaaggaga  | 189720 |
| ggaacgtggg  | ggacagagtc  | ctcaggactc  | tggctttttac | tctgagttag  | tcgaaaatcc  | 189780 |
| aattaaaggt  | ttgaaagaga  | ggaatgacct  | gatctgacat  | tttattgtga  | acgtttttcaa | 189840 |
| atcttttacag | aagtggaaaga | gcataacgat  | ccttcatgta  | cacatcgccc  | agcttcaact  | 189900 |
| atgatgtttc  | atltgtaaat  | atltccgtct  | acacttccaa  | aggatgatga  | ctatlttttaa | 189960 |
| aagtccaact  | ataataccat  | tatatltttaa | aaglttaaaac | actatgtctt  | taaatatcaa  | 190020 |
| gagltttgtat | tgattcgcac  | tttgaagggtc | gagctgatga  | aatlttctga  | ggggttggat  | 190080 |
| gtgacatgag  | agaggagtca  | agtattgcat  | ggtaatttaaa | aacctttgca  | gcatagtcca  | 190140 |
| tttaccgaaa  | gactatatgt  | atgcacttca  | aagcagggttt | taaagattaa  | catcaagcat  | 190200 |
| ctggcttcat  | gaglttttaac | ttctltttcat | aaatgtttata | caatgtcatc  | atctctccag  | 190260 |
| ctagagaaaa  | tgctattatt  | cttattlttca | aatgaggaaa  | atgacgcaga  | attattttaca | 190320 |
| tattatgtaa  | cttgggtccca | agtcccttag  | atactgggtt  | agaaaatcct  | agtaaaactgg | 190380 |
| aagtgactta  | tccaaaatta  | aaatlttattt | tgctctattg  | tctltttgttg | cctatgggaa  | 190440 |
| ctlttggtcag | gtaactaggc  | acatgtcagg  | actgattttac | tgacctctca  | aggtatcttt  | 190500 |
| aattatltttg | ggggatatca  | cggaatgagt  | tctacacaat  | tcattttgaat | cgaattgaac  | 190560 |
| ttaagaaaaat | tcaaatgatg  | cattgggtgc  | ctcctattta  | ttacatgctg  | ctcataggca  | 190620 |
| taacagcata  | gtctaacaag  | tataaaacct  | gtgtaactgt  | agctlttcagt | gcagtgtgat  | 190680 |
| gagggctgag  | aagatagtgg  | tacaaagaag  | agaggtagca  | gagtgaagct  | gagtcaatat  | 190740 |
| gatgaagatt  | tctctagact  | tgaaagggtt  | agaaaagggt  | attcttggca  | ggaaaaaac   | 190800 |
| atgagccaag  | gcataaggat  | aagcacaggc  | atggcagatt  | tgggaatgtc  | atgtaatttg  | 190860 |
| ttgctgggct  | gcaaagtaca  | tggaaaggga  | gtgaaggaaac | agaaggagat  | gaatctggag  | 190920 |
| ggagagggtta | aagtgttcca  | gagagcaata  | tgtagggtgtt | actctaagtc  | aaagagggtcg | 190980 |
| taatagcatg  | tccagactcc  | aaaactctaa  | acaagtcata  | gaattgctgc  | cttggtaggg  | 191040 |
| catatcacac  | acatcaaccc  | aatcctctgt  | caccatgaca  | tccatataac  | tgcaactcta  | 191100 |
| tacatltccc  | agcctatggt  | cccagagtct  | ccagatgaca  | ttgtctgcaa  | actgcactgc  | 191160 |
| agaagggtct  | gctatgtctt  | cttaaaaagta | agcaagactg  | ttttcctttg  | ttacatgagc  | 191220 |
| agcaaaaagga | taggggtgctc | tttgacctca  | cttactgtag  | ggtggatagg  | aaagtcaagg  | 191280 |
| aagagtaacc  | cagaagattt  | aglttttaact | ttcgcaccaa  | agagggtccct | tagcatctgc  | 191340 |
| tcagagatgt  | cacaatttct  | ggtgtgtgat  | tatgtlttaag | aattcggcct  | tgccactggt  | 191400 |
| gaagtgtgtc  | tgtggaaaaa  | gaacctctct  | taattlttaca | tgatgccccaa | cttctctttt  | 191460 |
| attccagaat  | cactcatatg  | ctgttggact  | ctttccagcc  | atgtgtgcta  | acctaggcaa  | 191520 |
| tgtcataata  | gatgaattat  | gtttactttg  | tctttgatat  | ctcagctctt  | ttatcttcta  | 191580 |
| ttcaagttcc  | cacctccatc  | attactgata  | gtgttcgttg  | aacaaagaat  | atgtcagata  | 191640 |
| tacagaagtg  | tttctccctt  | tttctctgtc  | tctctltttcc | ttcctlttcct | ttagtttccct | 191700 |
| ttctctgtct  | gtltttctgat | gcctcaatltt | agaaaagtga  | ttltttttgt  | gggaaaatca  | 191760 |
| ttttagcatt  | agaaacgcaa  | tggctatcac  | tgacagcttc  | ctctgatgaa  | acggccattt  | 191820 |
| gtcatcatta  | cacggtcatg  | ggagtgtctaa | gaagacttaa  | atgcagggtc  | accaccctt   | 191880 |
| cccaattcat  | ctlttatcca  | ttlttatltct | ctaaggaaaag | ggtttgaaaa  | atgggttttg  | 191940 |
| ccctcttgga  | tgcatgtgaag | aaattctagc  | tggctacaga  | tgttatgtt   | ggtcggaggc  | 192000 |
| aagggtatacc | atcatggtca  | caccattgtg  | gcgccagatg  | gggaatgtag  | caaacatagt  | 192060 |
| tgtaatlttct | cattlttacag | atgaagaaac  | tgagggtgcag | aggggttcgg  | tgacttgttt  | 192120 |
| aaggcatgtg  | attgttattg  | gcagctlttct | gttcagaact  | taagagtatg  | agtcagttcta | 192180 |
| gatctltttca | tcacaatact  | ctgctcctct  | tactltttcc  | tgaaatttgt  | cacattgaca  | 192240 |
| gcaatgtgat  | ccctaattgac | acacagattc  | ccaaataatt  | ttttagtagta | aaatlttccat | 192300 |
| ttgcaattct  | ggacatgtgt  | gtgtgtggaa  | ttlttatgtga | tgacatattg  | gtcctatctt  | 192360 |
| ttgaatagga  | tcataaatga  | aatgacttat  | ggatcacatt  | caaaagcagg  | ccaggggcca  | 192420 |
| atgtgtaagc  | aggtgggttt  | tcatatlttg  | agttctgtac  | ttlttggtta  | gtcagtgggt  | 192480 |
| ctaggactct  | tgtagtgtat  | ttcccaagg   | ccaaagtctt  | ctgccttgag  | gtgtcagctt  | 192540 |
| tccaaggcag  | aggctggatg  | ctltctcttc  | cttctgggtc  | cctltctctt  | aggcttcccc  | 192600 |
| cttctcttct  | cctccatttg  | tatctgtcct  | ttltctcggt  | actlttccctg | gctgggtctca | 192660 |

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|-------------|-------------|-------------|-------------|-------------|-------------|--------|
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| caggcttttt  | aaaaaagaag  | atgtgggtgc  | aaattgcagc  | tctctctctc  | tctcgactta  | 192840 |
| ccttttttct  | atcatccata  | tgcccttctt  | cttgtatctt  | tgggttccca  | gacctcacca  | 192900 |
| ttcattagca  | cttgggaatgg | attggtaaga  | ataaagaaaag | gagaggtggg  | gaaactcagc  | 192960 |
| ttgggtcatc  | tggttacaca  | ttagtaactg  | acaaaagata  | aaaagataca  | gactaaatgg  | 193020 |
| gttttttaggg | aactttttcc  | agtctattct  | tgtttcccat  | tagtgtgaaa  | aatcaacact  | 193080 |
| tgcttgatt   | ttggggtgaa  | gacatttttc  | ttaagtgaag  | gggaaagcct  | cttgacattt  | 193140 |
| taccgagagc  | cttaaatttt  | gaatggtgaa  | tgctaattgt  | ctttgtgcat  | aaagaatttc  | 193200 |
| agaacttgta  | tatatgagca  | ttaatgatgc  | atcattttct  | atttgtgagt  | taaactaggt  | 193260 |
| attatctgta  | atcatatttt  | taggaaacat  | tcaaactttc  | atcaagtcat  | tctcttatat  | 193320 |
| gactctcagc  | tccattaact  | ctgttttcat  | ggaactcaac  | agagttctta  | acgtttgcat  | 193380 |
| tataaattaa  | attagcattt  | cccctcaaag  | aagtattgct  | gtccttacaa  | taaataattg  | 193440 |
| tagacaattt  | cttttctttt  | cttttttttt  | tttttgagac  | aggttctctc  | tctgtcacc   | 193500 |
| atgctggagt  | gcagtggcac  | agtcacagct  | cactgcagcc  | ttgacctcct  | gggctcaagc  | 193560 |
| aatcttccca  | cctcaaccct  | ctgagtagct  | agaattatag  | gtgcacacca  | gacctggcta  | 193620 |
| atgtttaaat  | tttttgtaga  | gttgggtctt  | tgctatgttg  | cccaggctgg  | tctctaactc  | 193680 |
| ttgggctgaa  | gcattcctcc  | caccgcagcc  | ttccagagca  | gtgagattac  | aggtgtgagc  | 193740 |
| taccatgccc  | agctaattgc  | aggtgatttc  | taatgggatt  | tagtatttct  | gggtttaagg  | 193800 |
| atgagatctg  | aggtaatgac  | tttgtttcca  | gatgtgaaat  | aatttgctct  | tggttgtaga  | 193860 |
| gccctttggg  | tggtctccca  | aggatcctgc  | tctcttccag  | gagcccaggc  | tctggggtca  | 193920 |
| gactgcctgg  | gtccttgact  | ccctgttttc  | tgattgtaca  | actttggtga  | gtggccta    | 193980 |
| tcctctgtgc  | cttggttacc  | ttggttacta  | tttctaaaac  | aactggtgtt  | gtagtagtac  | 194040 |
| tgcttagagt  | actttcaagg  | gttaaatgaa  | ttaatccatg  | taaaacgctt  | aaaatagtgc  | 194100 |
| ctgccacaac  | catcaattta  | gtgtgaaaat  | ctgctcacct  | gcttggccag  | cccctttcac  | 194160 |
| tttattaaac  | caagggctcg  | gctgggtttt  | ccagaagtct  | aagttgcggt  | ctaactcttg  | 194220 |
| tgcagaagct  | gaaatgcagc  | ccataacgtt  | ctccctagat  | gatttcgtgg  | agcttctttg  | 194280 |
| aactgtatct  | atctccagtc  | atttttgtgg  | aagaaatttt  | cttctgtact  | ttttagggat  | 194340 |
| gagaattacc  | tgcttgggtt  | tattactaa   | aagacaccat  | gattacaaat  | aaaattaaat  | 194400 |
| aaatattgta  | tactaaata   | gataatatga  | gatagatgta  | ttaagttttc  | agataaacag  | 194460 |
| tataaaagag  | ctagagtaat  | ttgtaaaaag  | ttgggaggac  | ctattttgtc  | atgcaggaaa  | 194520 |
| caatttttaa  | cttgccctacc | ccagaacata  | gctaccacat  | ggtaggggtt  | tgcccaaacc  | 194580 |
| tggtccagga  | gtcatttacc  | ttgagctttc  | ctaaaaagga  | ggatcaggat  | tttctctctc  | 194640 |
| agactctatc  | attttaggta  | gagtccttct  | tgtcaattct  | ttttaagaac  | atacatttac  | 194700 |
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Pro Ala Val Tyr Asn Tyr Pro Glu Gly Ala Ala Tyr Glu Phe Asn Ala
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